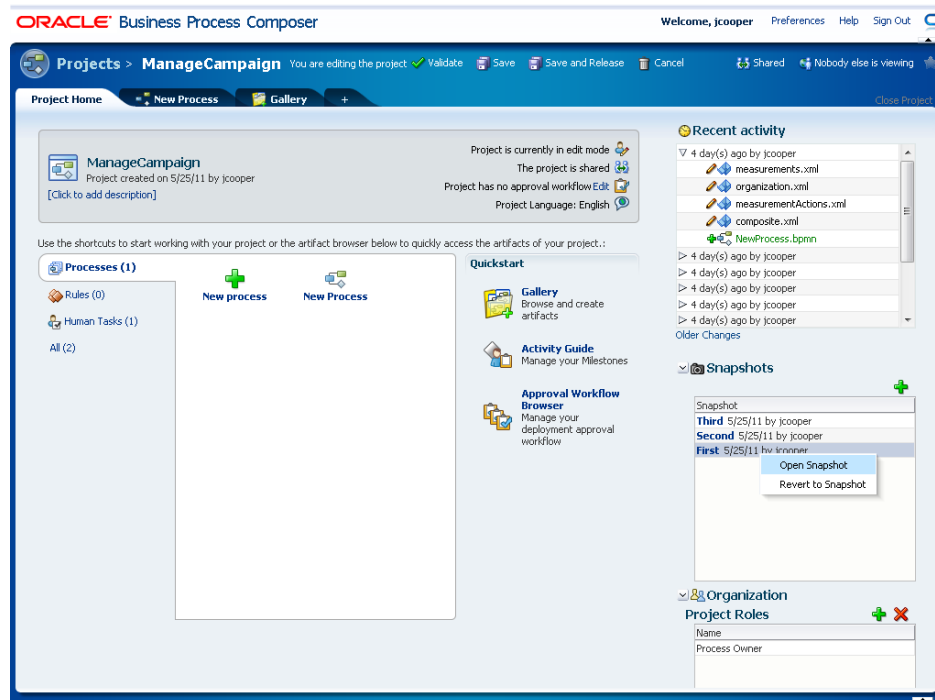


Oracle Business Process Management Suite is the most unified, simple, complete business process management platform for modeling, analysis, execution, monitoring and optimization of business processes. It has all you need to innovate today and scale from simple to complex processes. It has one single platform for all types of business processes: system, human, document, decision-centric, and unstructured. It is specifically designed to empower business users and process owners to directly engage in the improvement and management of their business processes. The Oracle BPM Suite 11gR1 PS4 FP is now publicly available and can be downloaded from [OTN](#). It is a special Feature pack release and includes exciting new features in addition to many bug fixes and performance improvements.

Highlights of the new features are:

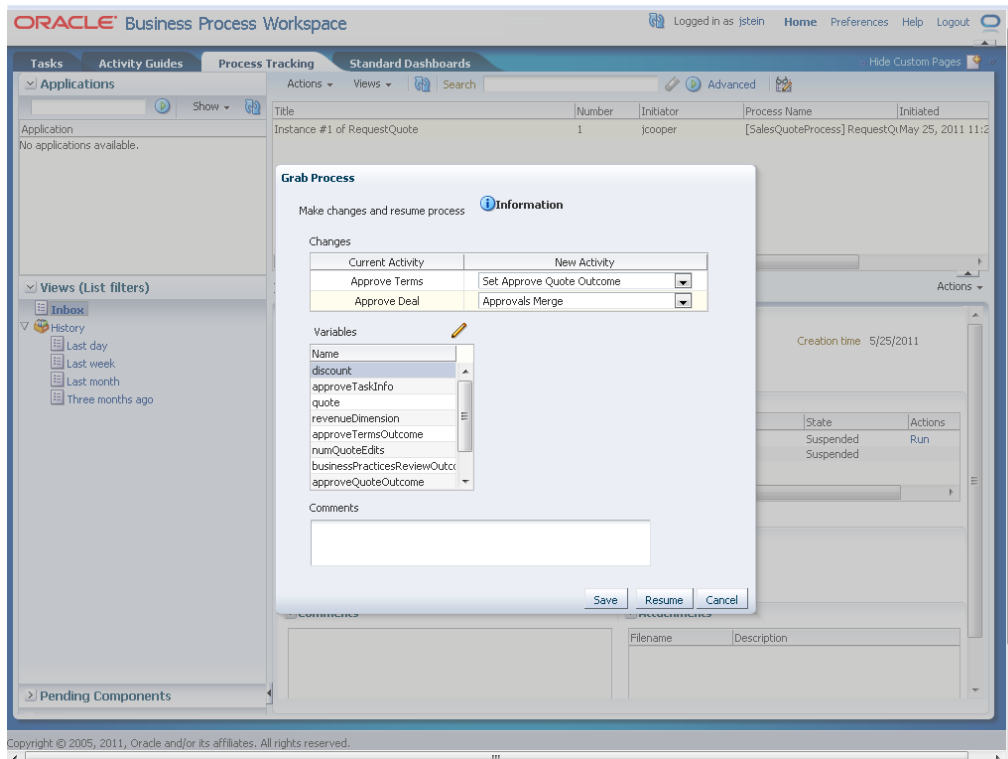
- **Significantly Enhanced Process Composer**
  - **New and improved Process Composer look and feel** – Process Composer has a brand new look and feel well suited for business audience and reduces learning curve and enables them to be productive from day one. It has a new Projects and Project page that supports searching for BPM Projects, marking favorite Projects, viewing the Business catalog and specifying approval workflows for process governance. In addition, many usability fixes have been added to BPM Process Composer keeping the business audience in mind.



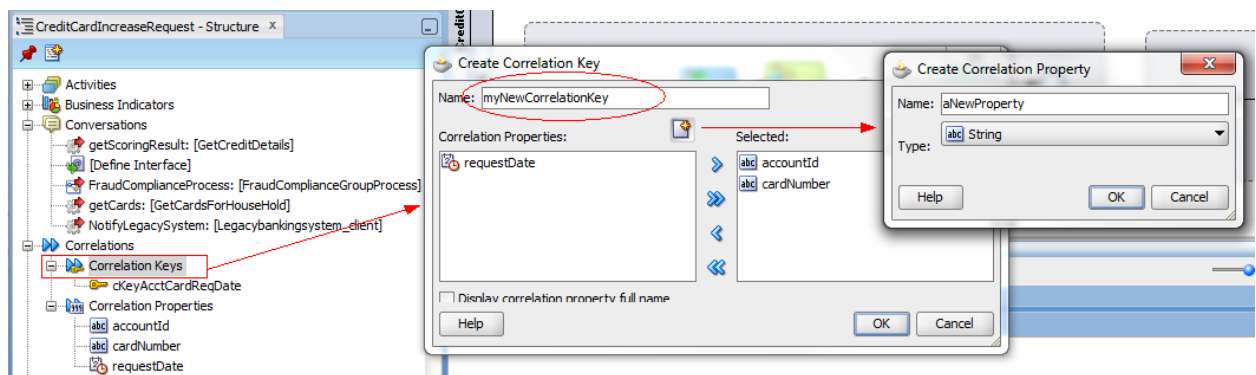
- **Sharing and Collaboration** – Business analyst and business users can now collaboratively create and share models at any point in time during process development and design. Collaboration is well integrated throughout the BPM Process Composer tool and the users can see who else is viewing or editing the BPM Projects and invite other people to participate in the process discovery. The

combination of BPM Project level privileges and global privileges can control who accesses and changes what information.

- **Snapshots** – BPM Composer now allows users to save different versions of the BPM Projects at various points in time. You can revert to an older snapshot in read-only mode; look at change log across different snapshots and determine what has changed in different versions of your BPM Projects.
- **Alter Flow** – **Alter Flow** is one of the notable features of PS4 FP and it is a re-incarnation of the Grab feature in Aqualogic BPM Product for changing the flow of process instance(s) dynamically at run-time. The Alter Flow is a privilege of the Process Owner and he can change the process flow by logging in to the Oracle BPM 11g Business Process Workspace. No modeling change is required to perform Alter Flow. The BPM engine determines the active process steps as well as the valid process steps that the process flow control can be transferred to. This is presented in the Alter Flow wizard in BPM Workspace and can be used to skip certain process steps, go back to previous process step and also to change the value of process instance variables. APIs have been provided for bulk Alter Flow changes across process instances. Alter Flow is very useful when some business logic has faulted and you want to manually fix the process instances.



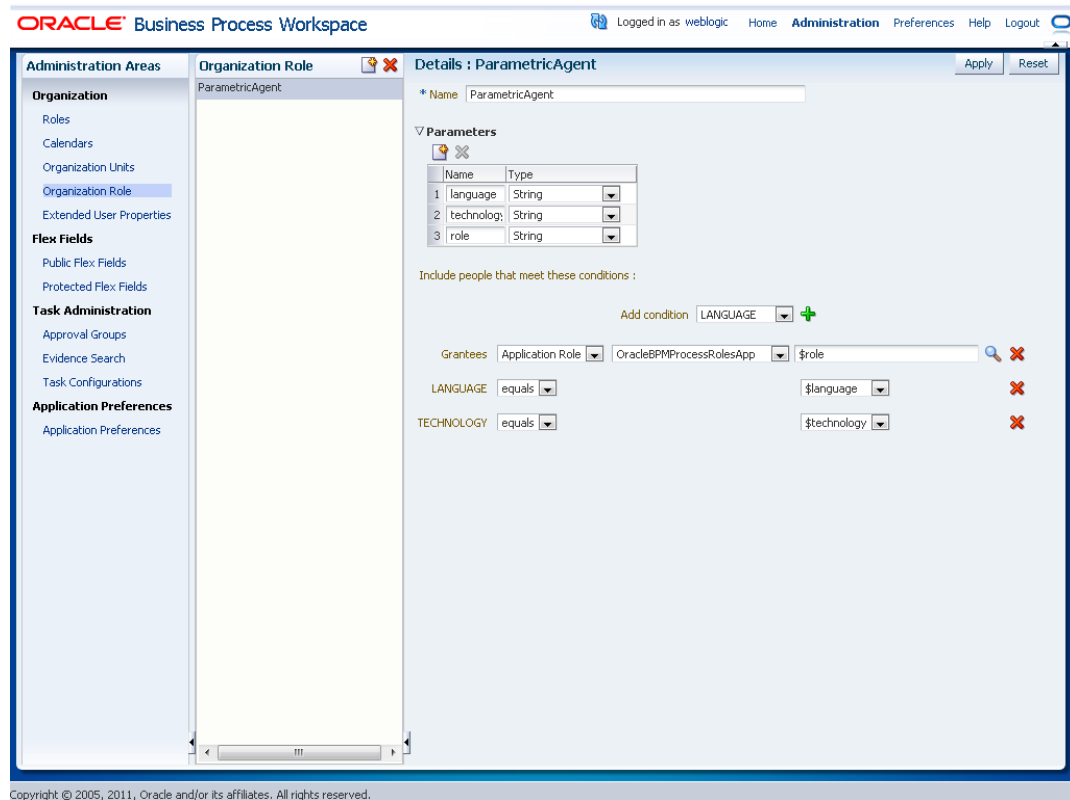
- Instance Migration** – Until BPM Suite 11g R1 PS3, when BPM Projects are redeployed the in-flight process instances are marked stale and retired. The Instance Migration feature in this release enables migration of active process instances to the redeployed version. The BPM engine computes which of the active process instances can be migrated without issues to the newly deployed version and migrates only those validated process instances. All other active process instances are suspended. These suspended instances can be fixed using Alter Flow. The combination of Alter Flow and Instance Migration can be used to take care of business exceptions that have not been modeled.
- Out of the box support for custom correlations and scoped conversations** – Prior to 11.1.1.5FP, Oracle BPM Suite supported only automatic correlation via WS-Addressing headers. If message based correlation was needed (such as message conversations with an already running process instance), the approach was to delegate the correlation tasks to a BPEL process. Starting in Oracle BPM Suite 11g R1 PS4FP, out of the box support for message based correlation is provided in addition to automatic correlation. Correlation Keys can be based on one or more Correlation Properties (message attributes) to form a unique key to locate the process instance. A wizard is provided to define Correlation Keys and they are set in the same way as Data Associations.



Conversation uniquely identifies a set of message exchanges between 2 BPMN processes (2 partners) or between the BPMN process and a service instance. In the simplest case, a reply-to message must be sent to the same instance that sent the message being replied to. In BPMN editor, when Reply-to is specified, the appropriate conversation is automatically selected. In addition, scoped conversations are also supported in the PS4 FP release to enable scenarios where a multi-instance subprocess containing call activity can be used to invoke multiple BPMN processes (child BPMN processes) and the calling process needs to differentiate these child process instances.

- Parametric Roles** – In addition to role based assignees for BPMN Interactive Tasks (human workflow steps), there might be requirements to perform further filtering of the members of these roles based on skills, location, job titles, languages known etc. Until Oracle BPM 11g R1 PS3, these conditions had to be specified as Business Rules. With

PS4 FP release, the Parametric Roles also known as Organization Roles enables query conditions to be specified on extended user attributes defined either in LDAP or outside of LDAP inside BPM Workspace.



- **Sticky User and 4-eye support** – Another enhancement to role-based assignment in PS4 FP release is the support for specifying sticky user and filtering of process participants who have acted on the previous process steps (also referred to as 4-eye support) as part of task definition. In the former, the assignee of an Interactive Task is set to the assignee of the previous Interactive Task in the same swimlane. Conversely, in the 4-eye support, the assignee of the Interactive Task has to be some other member of the role associated with the swimlane besides the member who has acted on the previous Interactive Task in the same swimlane.

**Create Human Task**

General

Name:  Priority:

Title:

Outcomes:

Participants

Performer:  Current lane participant  Previous lane participant

Exclude previous participants

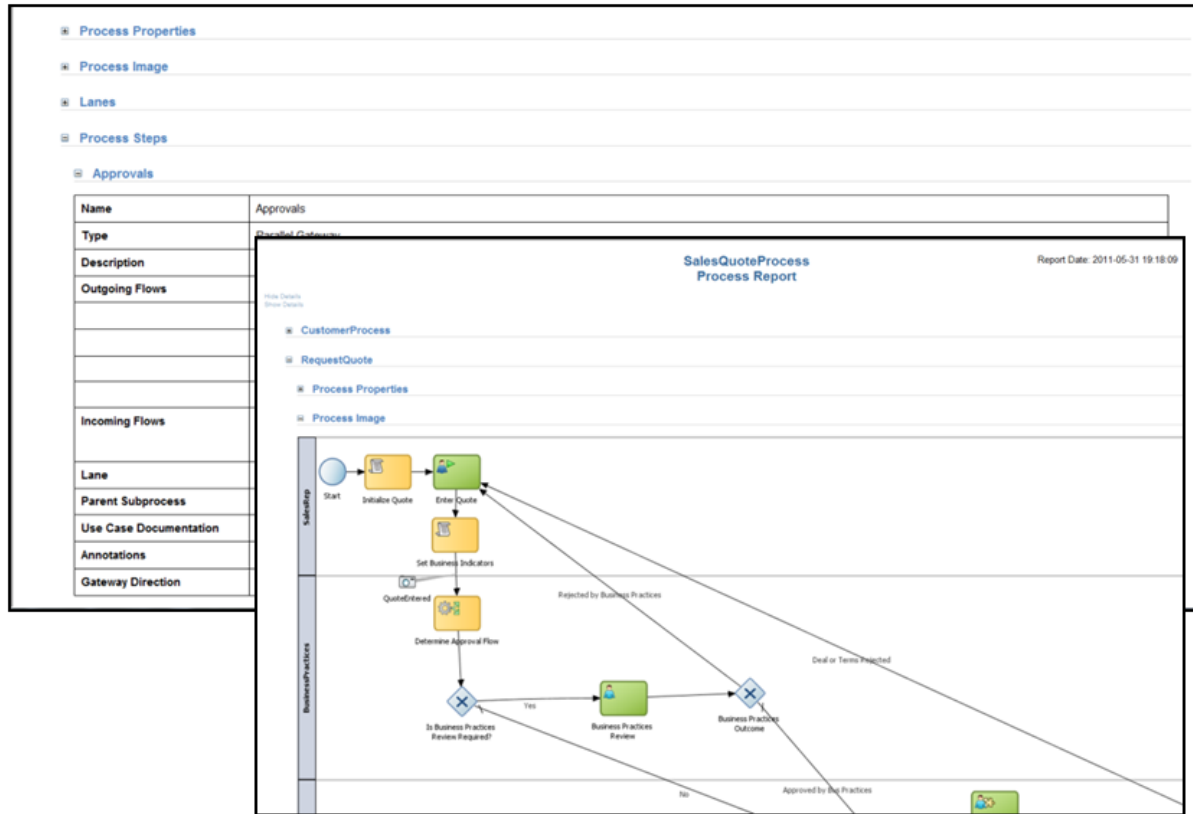
Pattern:

Parameters:

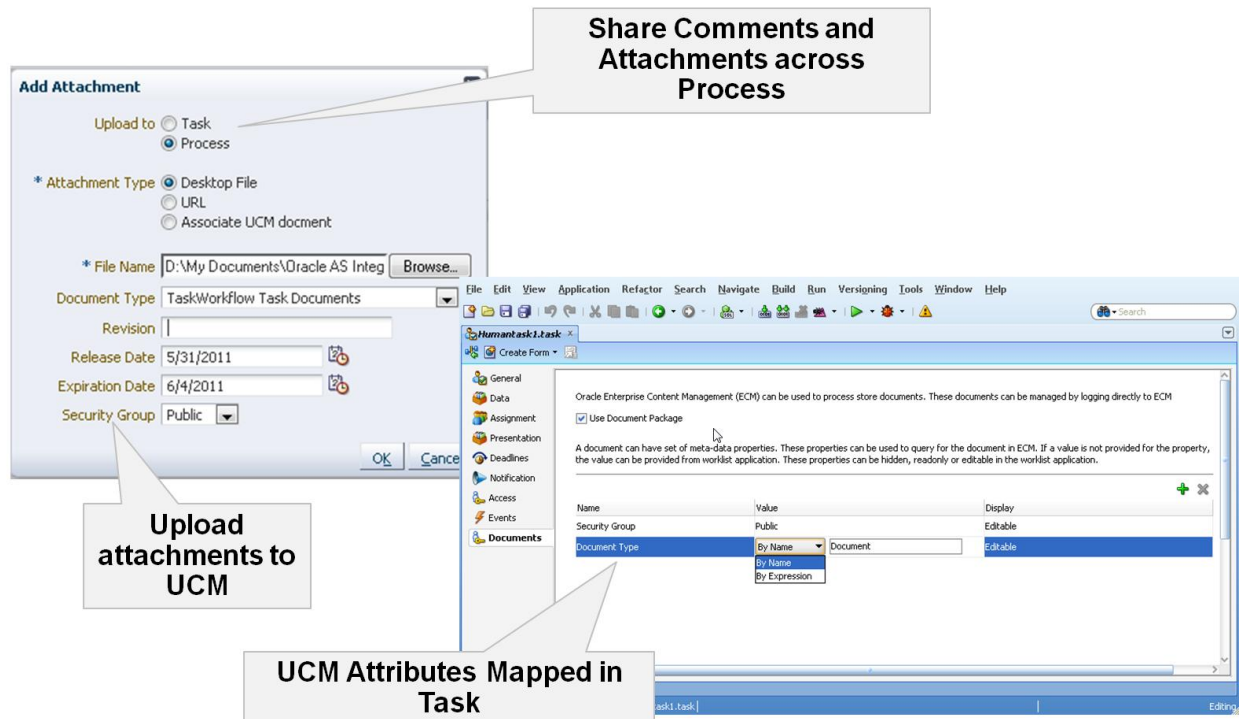
Parameter	Name	Type	Editable

Outcome target:

- **Process Documentation generation** – With this release Oracle BPM Project and processes can be documented and exported to HTML and XML formats. The XML format facilitates generating tailored process reports using custom XSLT mappings.

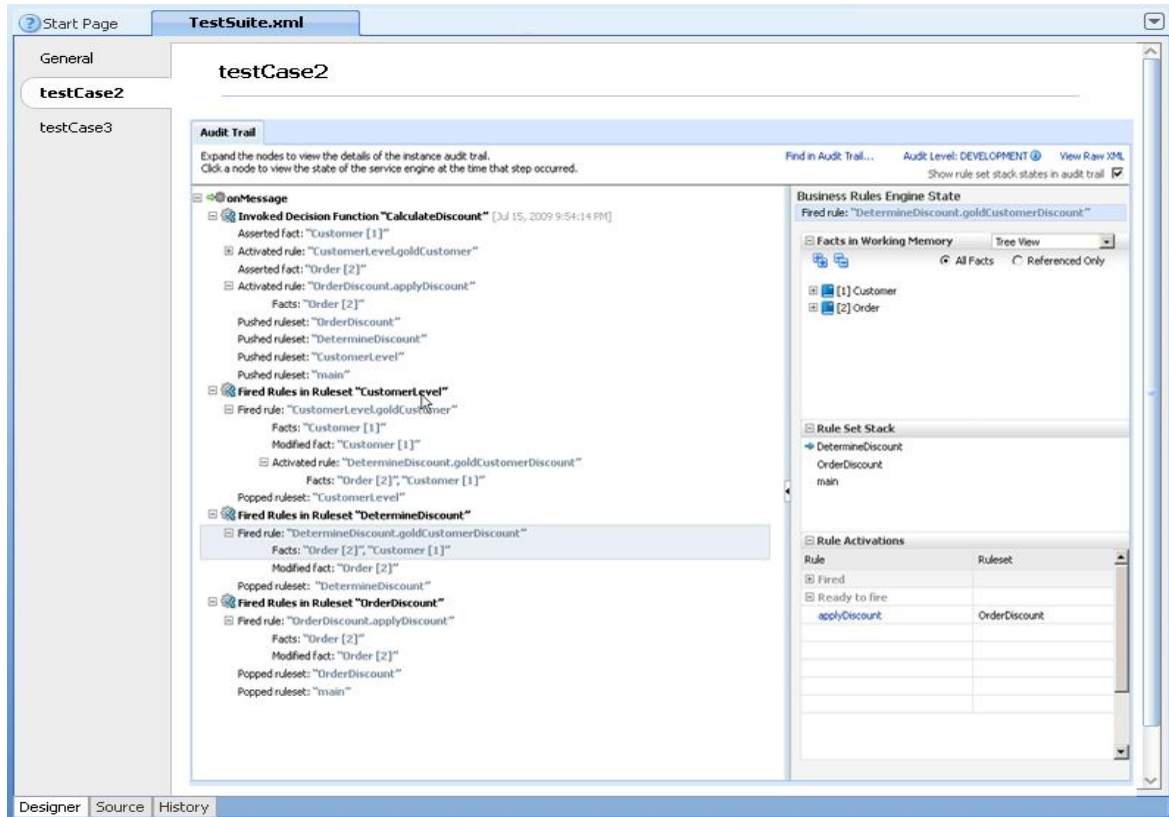


- BPMN Process Collaboration View** – In addition to the BPMN 2.0 process diagram model, the PS4 FP release supports the BPMN 2.0 Process Collaboration Diagrams as well. BPMN 2.0 Process Collaboration Diagrams are used to show the message exchanges (higher level interactions) among BPMN process diagrams. It is a read-only view in the PS4 FP release and automatically generated from the message interactions across participating processes in BPM Studio and Process Composer.
- Propagation of Comments and Attachments and UCM Integration** – Up until this release, the Comments and Attachments associated with Interactive Tasks (human workflow tasks) has to be explicitly mapped using Data Association XPATH Editor to propagate across the process steps in a BPMN process. In PS4 FP release, with just a simple selection, you can specify if the Comments/Attachments have to be propagated at the process level. Further, these Attachments can either be stored within Oracle Universal Content Management System (Oracle UCM) if they are new or referenced if the Attachments already exist in the Oracle UCM. This is achieved by specifying the Oracle UCM connection properties as part of Human workflow task definition during design-time.

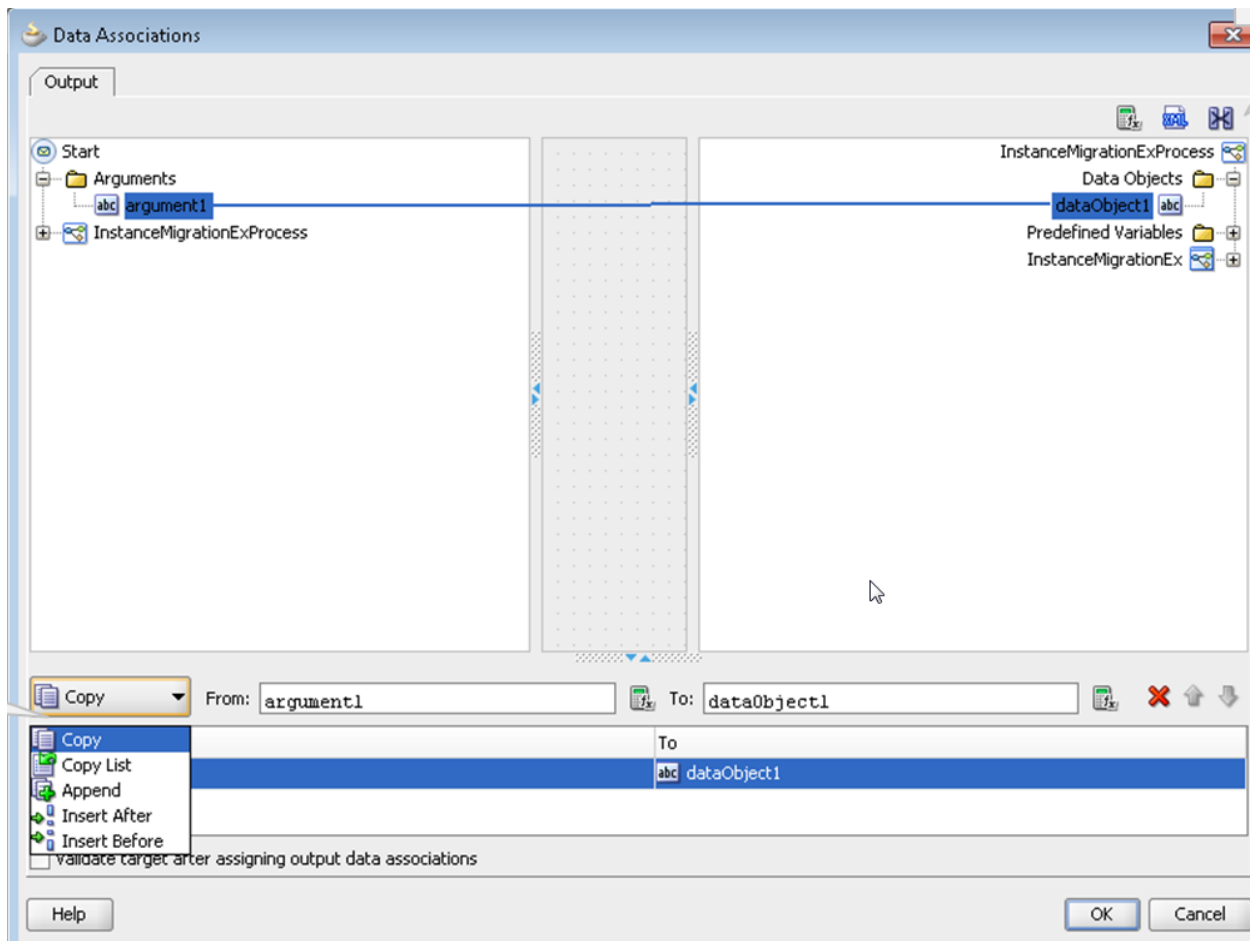


- Notification and Task Update BPMN activities** – Another BPMN 2.0 enhancement that significantly improves developer productivity is 2 new BPMN activities – Notification Activity for sending notifications through different communication channels (email, IM, SMS, Voice mail etc) and the Update Task Activity for making changes to the states of active as well as outstanding Human workflow tasks. Until this release, users wanting to send email notifications had to use a BPEL process or an Interactive Task (human workflow task) of type FYI. This is no longer required in PS4 FP release as Notification Activity is a first-class citizen now. Using the Update Task you can suspend, withdraw, resume, escalate, reassign, suspend and resume the timers of outstanding Interactive tasks in 2-click operation.
- Enhancements to Activity Guide within BPM Workspace** – Another impactful enhancement is around Activity Guides. Activity Guides is a unique feature of Oracle BPM Suite which enables a milestone or process player type of view of the business process and displays the different tasks that as a user you need to perform, how many tasks you have completed and probably access to others tasks as well. Activity Guides is very useful for 2 reasons as many users might not be concerned about the full process and sometimes you might not want to expose all the process steps for security reasons. In earlier releases, to use Activity Guide you had to perform some manual steps to create the Activity Guide Player inside Oracle BPM Suite – BPM Workspace. With PS4 FP release, the Activity Guide Player is automatically generated and visible as a tab inside BPM Workspace.

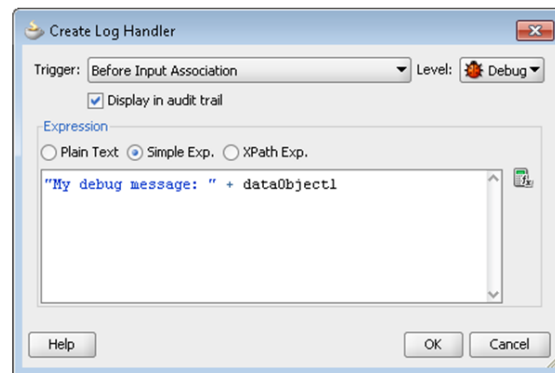
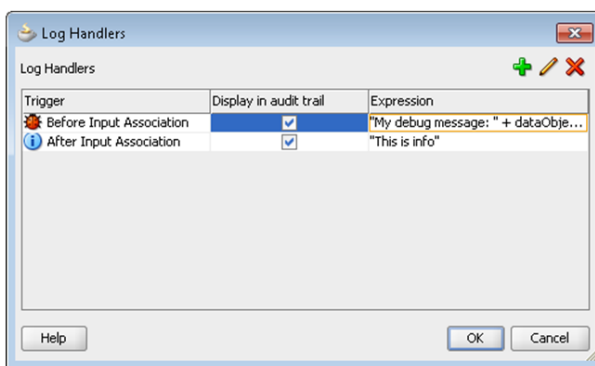
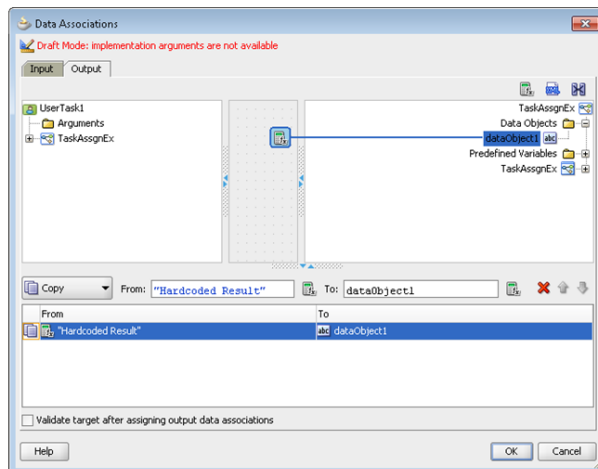
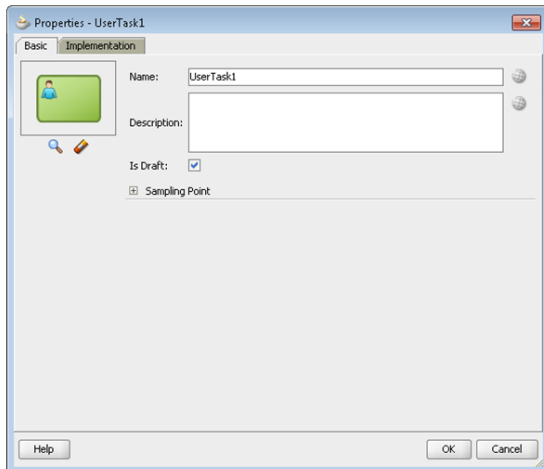
- Rule Testing and Audit Trail** – In earlier releases, the audit trail of Rules was limited in diagnosing Business Rules. In PS4 FP release, in addition to showing the basic Business Rules audit trail, information about Facts in working memory as well as Rule Set Stack execution and Rule Activations audit trail are also shown. This greatly simplifies the Business Rules testing.



- New Data Association Editor** – With PS4 FP release, you can now perform Array manipulation within Data Association Editor using XPATH (without having to use XSLT). Also, you can have combination of multiple XPATH and XSLT mappings for inputs and output data mappings.



- Pre-defined Variables** - With PS4 FP release, the process instance state is exposed through a set of pre-defined variables. Most of them are editable and some are read-only. Notable pre-defined variables are the process instance title, organization unit for the process instance, process priority, process instance id, creator of the process instance and owner of the process instance. An example use case would be to set the organization unit of the process instance based on the incoming process instance data and this predefined variable to filter the assignees for the Interactive Tasks in the process.
- Draft Mode and custom Log Messages** – One significant developer feature added to PS4 FP release is the “Draft Mode” which enables marking certain steps as draft and test partially completed processes for incremental development and testing. The draft process steps are treated as no-ops (dummy activities) by the BPM run-time engine. A related feature that has been added in the PS4 FP release is the ability to specify custom Log Messages at various points in the process execution (before/after data association etc). The Data Association Editor can be used to construct these log messages and you can also specify the log levels such as Info, Debug etc for these log messages. The “Display in audit trail flag” is used for displaying these custom log messages as part of the process instance audit trail in the Process Tracking tab of the BPM Workspace



- **Round-trip simulation and simulation enhancements** – This feature enables creating simulation scenarios from process run-time data to perform what-if analysis using real data. In addition, new simulation wizards to speed up the creation of simulation models and ability to view/set simulation attributes from the Property Inspector panel have been added in this release.
- **BI integration with Oracle BPM Process Analytics** – BI integration with Oracle BPM Process Analytics has been enhanced further in this release. Process specific BI views on top of the process STAR schema are automatically created upon deployment of the process model to facilitate creating queries on top with Oracle Business Intelligence and other 3<sup>rd</sup> party Business Intelligence products.
- **BPM Workspace Customization Enhancements** – With PS4 FP release, you can customize the BPM Workspace in a wizard driven fashion. You can add custom skins, hide panels and tabs, embed external links and customize Task Table using Flex fields based columns.
- **Oracle Workflow Import** – Oracle Workflow is part of the Oracle E-Business Suite of applications and is a traditional, legacy workflow platform for business document approvals and system integration workflows. With PS4 FP release, you can import the

process models from Oracle Workflow inside Oracle BPM Studio as BPMN 2.0 models and further refine it for execution.

